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One consequence of presenting elementary set theorems before presenting set theory axioms is that some of Stoll's theorem's precede the axioms which they are based on. For example, theorems 4.4 and 4.5 on pages 91-93 use the countable axiom of choice, which is not introduced until pages 111-118 informally, and on page 302 formally.

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A Book on Logic and Mathematical Proofs **Set Theory And Logic** **Dover**

This is an ideal painless introduction to standard logic and set theory for anyone with a couple of years of undergraduate pure mathematics background. This 1963 book by Robert Roth Stoll is more than twice as big as the author's 1961 "Sets, Logic and Axiomatic Theories", which it is an expansion of. The 1961 book was already very good, but this greatly expanded 1963 edition is much more comprehensive, and still very beginner-friendly, not one of those macho books which inflict the maximum ...

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The treatment of Goedel's definitional model of set theory and Cohen's technique of forcing are the clearest I have come across, although the treatment of forcing is unusual in that forcing conditions are treated as part of the semantics of a modal logic, called S4, rather than being treated as a Boolean logic or as distinct forcing semantics.

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