```
ma-sub_transitivity  THM

⊢  ∀M1,M2,M3:MsgA. M1 ⊆ M2 ⇒ M2 ⊆ M3 ⇒ M1 ⊆ M3
  by Auto THEN Unfold_MsgA -5 THEN Unfold_MsgA -4 THEN Unfold_MsgA -3
     THEN
     ExRepD
     THEN
     BetterSplitAndConcl
     THEN
     SimpleTransitivity
     THEN
     Try (DoSubsume THEN ProveFpfSub)
     THEN
     AllHyps
     (λh.
      MoveToConcl h THEN BackThru Thm: fpf_DASH_sub_functionality
      THEN
      Try DoSubsume
      THEN
      ProveFpfSub)
END
```