```
fpf-join-ap-left  THM

⊢  ∀A:Type, B,C:(A→Type), eq:EqDecider(A), f:a:A fp-> B(a),
    g:a:A fp-> C(a), x:A. x ∈ dom(f) ⇒ f ⊕ g(x) = f(x)
  by Auto THEN Unfolds [‘fpf-join‘;‘fpf-ap‘] 0 THEN Reduce 0
     THEN
     Subst ((2of(f)(x)) ∼ f(x)) 0
     THEN
     Try (Unfold ‘fpf-ap‘ 0 THEN Trivial)
     THEN
     Unfold ‘fpf-cap‘ 0
     THEN
     SplitOnConclITE
END
```